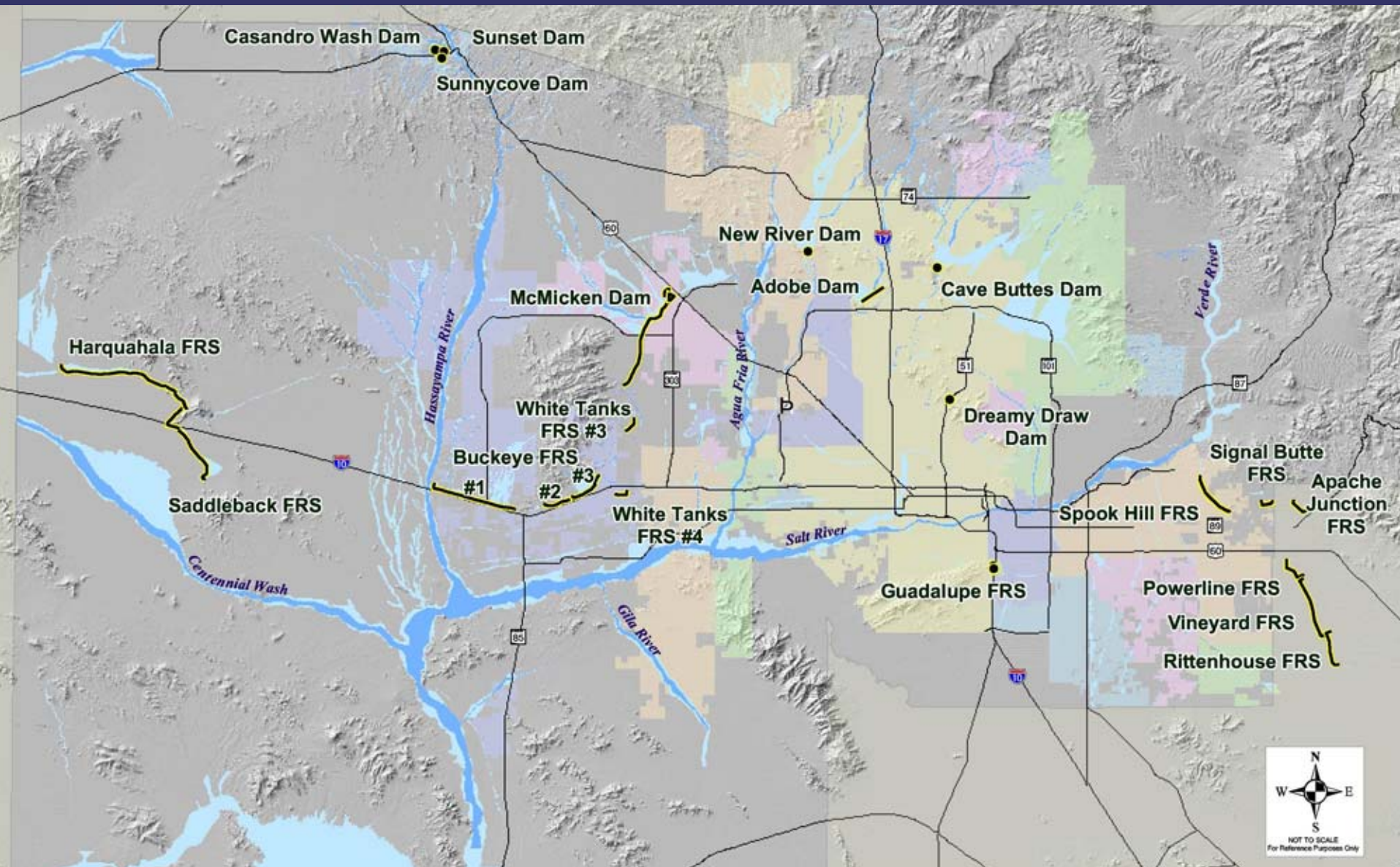




Dam Safety Program

Tom Renckly, P.E.
Structures Management Branch Manager
Planning and Project Manager Division

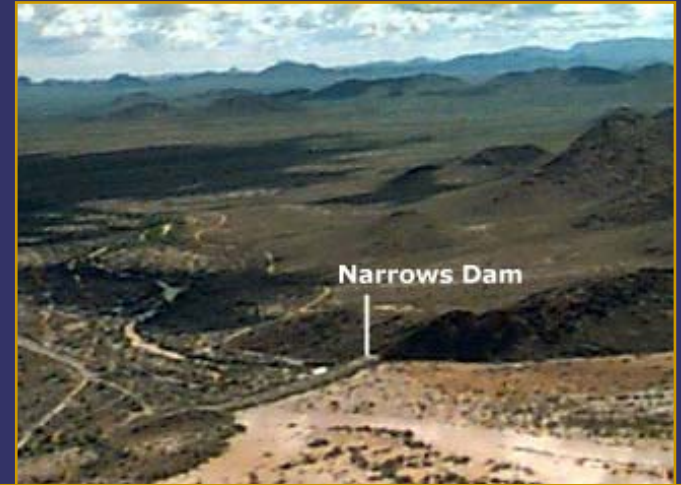
Flood Control District Dams



Dam Safety Program Activities

- Recurrent Dam Safety Activities
- Structures Assessment
- Dam Rehabilitation

Hurricane Katrina Eye



Centennial Narrows Dam
1997 Dam Failure



New Orleans
September 2005



Recurrent Dam Safety Activities

Emergency Action Plans

- Significant Flood Events and Related Emergency Conditions
- Define Agency Responsibilities
- Inundation Mapping
- Required by ADWR
- Updating All EAPs



Recurrent Dam Safety Activities

Future Contracts

- Upgrade of Emergency Action Plans
- On-call Register Based Selection
- Contract Value \$250,000
- Contract Duration 2 Years
- Anticipated Award Dates
 - December 2006
 - December 2007



Recurrent Dam Safety Activities

Dam Surveys

- GPS Surveys
- Physical Changes
 - Land Subsidence
 - Embankment and Foundation Settlement
- Evaluate Trends
- Actions



Recurrent Dam Safety Activities

Future Contracts

- Dam Surveys
- On-call Register Based Selection
- Contract Value \$250,000
- Contract Duration 2 Years
- Anticipated Award Date
 - January 2007
 - January 2008



Buckeye FRS # 1

2004 Transverse Cracks Investigation and Repair



Structures Assessment

Future Contracts

- Phase II Geotechnical Contracts
- Procurements: LOI, Technical Proposals, Interviews
- On-call, Contract Value \$500,000
- Contract Duration 2 Years
- Anticipated Advertise Dates
 - July 2006
 - July 2007



Dam Rehabilitation Issues

Urbanization

Changing Standards and Regulations

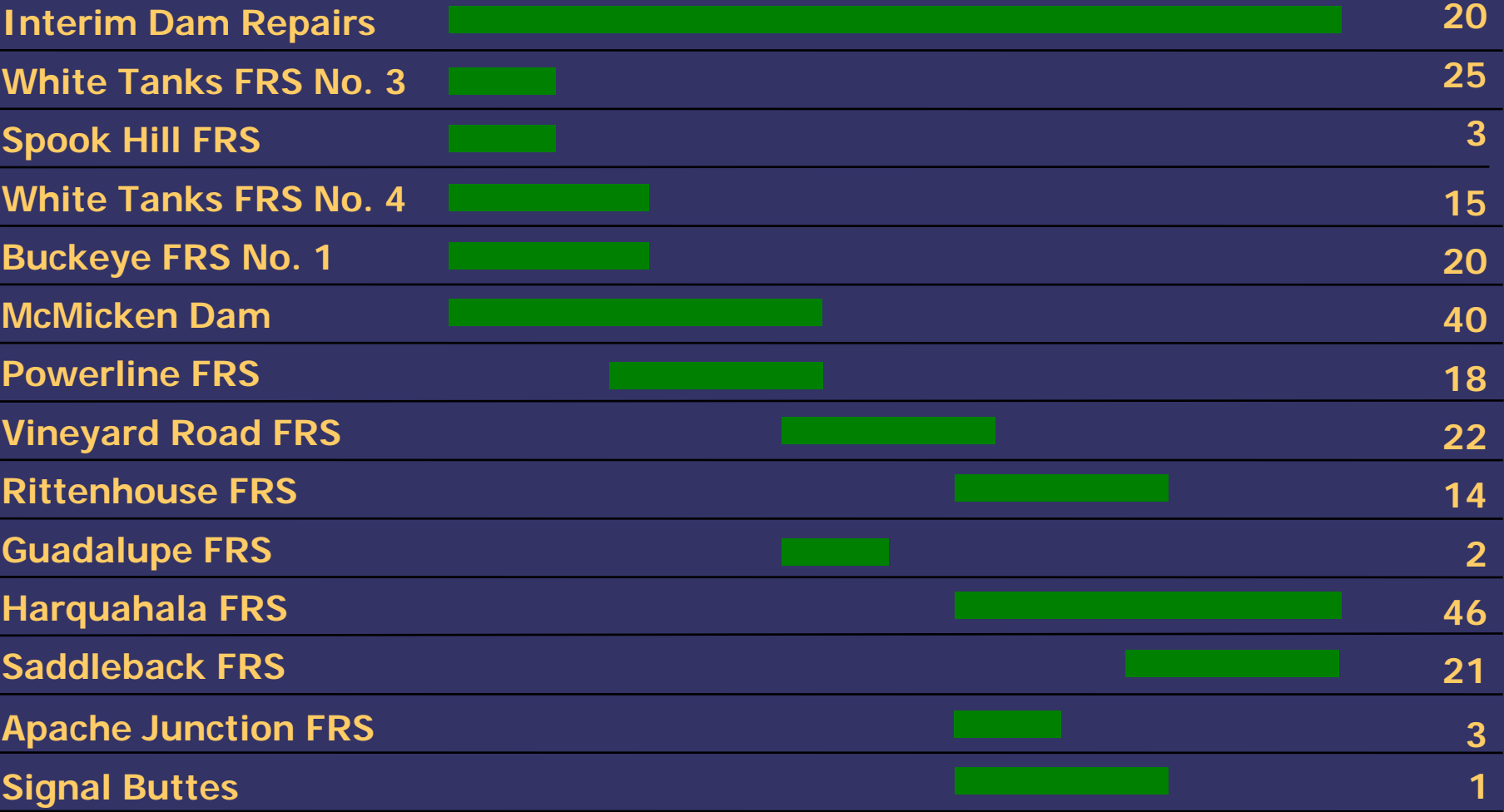
Dam Safety

- Embankments: Cracking
- Foundations: Erosive Soils, Collapsible Soils
- Emergency Spillways: Capacity, Erosive Soils
- Subsidence, Earth Fissures
- Outlets: CMP Outlets, Potential for Piping



Dam Rehabilitation

2005 2010 2015 2020 2025 2030 \$ Million



Total \$250 Million

Dam Rehabilitation

White Tanks FRS#4 Dam Rehab Project

Alternatives Analysis: Ongoing

Final Design: September 2006

White Tanks FRS#4

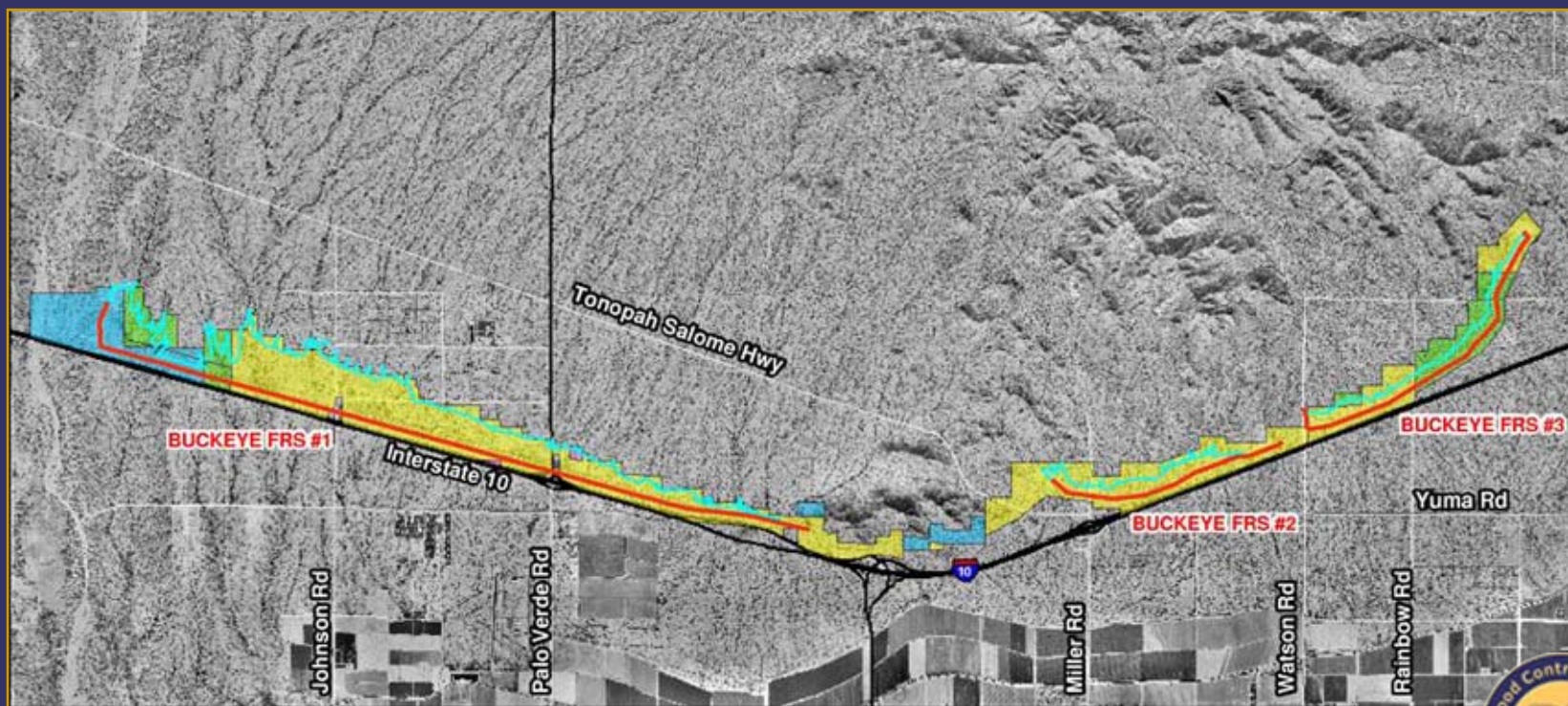


Dam Rehabilitation

Buckeye FRS#1 Dam Rehab Project

Alternatives Analysis: Ongoing

Final Design: April 2007



Buckeye Watershed Project



Dam Rehabilitation

McMicken Dam Rehabilitation Project

Alternatives Analysis: Ongoing

Final Design: December 2007





Dam Safety Program **Questions**

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